

Pham 194215



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 194215 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194215 has 33 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Hestia\_46
- Track 2 : Miskis\_96, Toniann\_100, Aphelion\_99, Abscondus\_97, Bachita\_100, PhinkBoden\_97, Geeche\_97, Norvs\_100, Cucurbita\_99, Lozinak\_98, Engineer\_99, Smoothie\_99, Dusty\_95
- Track 3 : WilliamBoone\_100
- Track 4 : Culver\_100
- Track 5 : ClubL\_99
- Track 6 : OneUp\_86
- Track 7 : BrutonGaster\_80
- Track 8 : BritBrat\_52
- Track 9 : Mollymur\_93
- Track 10 : SpeedDemon\_940
- Track 11 : DatBoi\_89
- Track 12 : Daredevil\_83
- Track 13 : Bantam\_93
- Track 14 : Malisha\_63, Squiddly\_59
- Track 15 : BearBQ\_57, MortyNRick\_55
- Track 16 : Spooky\_52
- Track 17 : Kumotta\_34, MargaretKali\_34
- Track 18 : GAL1\_42

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 9, it was called in 14 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_97, Aphelion\_99, Bachita\_100, BrutonGaster\_80, ClubL\_99, Cucurbita\_99, Culver\_100, Dusty\_95, Engineer\_99, Geeche\_97, Lozinak\_98, Miskis\_96, Norvs\_100, OneUp\_86, PhinkBoden\_97, Smoothie\_99, Toniann\_100, WilliamBoone\_100,

Genes that have the "Most Annotated" start but do not call it:

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Genes that do not have the "Most Annotated" start:

- Bantam\_93, BearBQ\_57, BritBrat\_52, Daredevil\_83, DatBoi\_89, GAL1\_42, Hestia\_46, Kumotta\_34, Malisha\_63, MargaretKali\_34, Mollymur\_93, MortyNRick\_55, SpeedDemon\_940, Spooky\_52, Squiddly\_59,

### Summary by start number:

Start 8:

- Found in 3 of 33 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat\_52 (CY2), GAL1\_42 (singleton), Spooky\_52 (DN2),

Start 9:

- Found in 18 of 33 ( 54.5% ) of genes in pham
- Manual Annotations of this start: 14 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus\_97 (CQ1), Aphelion\_99 (CQ1), Bachita\_100 (CQ1), BrutonGaster\_80 (CQ2), ClubL\_99 (CQ1), Cucurbita\_99 (CQ1), Culver\_100 (CQ1), Dusty\_95 (CQ1), Engineer\_99 (CQ1), Geeche\_97 (CQ1), Lozinak\_98 (CQ1), Miskis\_96 (CQ1), Norvs\_100 (CQ1), OneUp\_86 (CQ2), PhinkBoden\_97 (CQ1), Smoothie\_99 (CQ1), Toniann\_100 (CQ1), WilliamBoone\_100 (CQ1),

Start 10:

- Found in 8 of 33 ( 24.2% ) of genes in pham
- Manual Annotations of this start: 6 of 27
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Bantam\_93 (DL), BearBQ\_57 (DN), DatBoi\_89 (DL), Malisha\_63 (DN), MortyNRick\_55 (DN), SpeedDemon\_940 (DL), Squiddly\_59 (DN2),

Start 11:

- Found in 1 of 33 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hestia\_46 (AY),

Start 12:

- Found in 2 of 33 ( 6.1% ) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumotta\_34 (FB), MargaretKali\_34 (FB),

Start 13:

- Found in 1 of 33 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mollymur\_93 (DL),

Start 14:

- Found in 4 of 33 ( 12.1% ) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Daredevil\_83 (DL),

### **Summary by clusters:**

There are 9 clusters represented in this pham: DN, CY2, DL, singleton, FB, DN2, AY, CQ2, CQ1,

Info for manual annotations of cluster AY:

- Start number 11 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CQ1:

- Start number 9 was manually annotated 12 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 9 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CY2:

- Start number 8 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DL:

- Start number 10 was manually annotated 3 times for cluster DL.
- Start number 13 was manually annotated 1 time for cluster DL.
- Start number 14 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DN:

- Start number 10 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 8 was manually annotated 1 time for cluster DN2.
- Start number 10 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster FB:

- Start number 12 was manually annotated 2 times for cluster FB.

### **Gene Information:**

Gene: Abscondus\_97 Start: 58989, Stop: 59189, Start Num: 9

Candidate Starts for Abscondus\_97:

(Start: 9 @58989 has 14 MA's), (17, 59046), (18, 59052), (25, 59130), (27, 59145),

Gene: Aphelion\_99 Start: 60542, Stop: 60742, Start Num: 9

Candidate Starts for Aphelion\_99:

(Start: 9 @60542 has 14 MA's), (17, 60599), (18, 60605), (25, 60683), (27, 60698),

Gene: Bachita\_100 Start: 60200, Stop: 60400, Start Num: 9

Candidate Starts for Bachita\_100:

(Start: 9 @60200 has 14 MA's), (17, 60257), (18, 60263), (25, 60341), (27, 60356),

Gene: Bantam\_93 Start: 62206, Stop: 62006, Start Num: 10

Candidate Starts for Bantam\_93:

(Start: 10 @62206 has 6 MA's), (Start: 14 @62191 has 1 MA's), (18, 62146), (22, 62095),

Gene: BearBQ\_57 Start: 39707, Stop: 39916, Start Num: 10

Candidate Starts for BearBQ\_57:

(Start: 10 @39707 has 6 MA's), (18, 39767), (19, 39782), (24, 39842), (27, 39860),

Gene: BritBrat\_52 Start: 37915, Stop: 38136, Start Num: 8

Candidate Starts for BritBrat\_52:

(Start: 8 @37915 has 2 MA's), (Start: 10 @37930 has 6 MA's), (15, 37963), (16, 37981), (17, 37984), (18, 37990), (19, 38005), (20, 38035), (24, 38065), (26, 38080), (27, 38083), (28, 38101), (29, 38125),

Gene: BrutonGaster\_80 Start: 54552, Stop: 54749, Start Num: 9

Candidate Starts for BrutonGaster\_80:

(Start: 9 @54552 has 14 MA's), (21, 54663), (25, 54693),

Gene: ClubL\_99 Start: 59132, Stop: 59332, Start Num: 9

Candidate Starts for ClubL\_99:

(6, 59090), (Start: 9 @59132 has 14 MA's), (25, 59273), (27, 59288),

Gene: Cucurbita\_99 Start: 60707, Stop: 60907, Start Num: 9

Candidate Starts for Cucurbita\_99:

(Start: 9 @60707 has 14 MA's), (17, 60764), (18, 60770), (25, 60848), (27, 60863),

Gene: Culver\_100 Start: 59032, Stop: 59232, Start Num: 9

Candidate Starts for Culver\_100:

(Start: 9 @59032 has 14 MA's), (25, 59173), (27, 59188),

Gene: Daredevil\_83 Start: 57872, Stop: 57690, Start Num: 14

Candidate Starts for Daredevil\_83:

(Start: 14 @57872 has 1 MA's), (20, 57782), (23, 57755),

Gene: DatBoi\_89 Start: 61354, Stop: 61154, Start Num: 10

Candidate Starts for DatBoi\_89:

(Start: 10 @61354 has 6 MA's), (Start: 14 @61339 has 1 MA's), (22, 61243),

Gene: Dusty\_95 Start: 59048, Stop: 59248, Start Num: 9

Candidate Starts for Dusty\_95:

(Start: 9 @59048 has 14 MA's), (17, 59105), (18, 59111), (25, 59189), (27, 59204),

Gene: Engineer\_99 Start: 60173, Stop: 60373, Start Num: 9

Candidate Starts for Engineer\_99:

(Start: 9 @60173 has 14 MA's), (17, 60230), (18, 60236), (25, 60314), (27, 60329),

Gene: GAL1\_42 Start: 33753, Stop: 33974, Start Num: 8

Candidate Starts for GAL1\_42:

(Start: 8 @33753 has 2 MA's), (17, 33822), (18, 33828), (19, 33843), (20, 33873), (28, 33939), (29, 33963),

Gene: Geeche\_97 Start: 59271, Stop: 59471, Start Num: 9

Candidate Starts for Geeche\_97:

(Start: 9 @59271 has 14 MA's), (17, 59328), (18, 59334), (25, 59412), (27, 59427),

Gene: Hestia\_46 Start: 29789, Stop: 29977, Start Num: 11

Candidate Starts for Hestia\_46:

(Start: 11 @29789 has 1 MA's),

Gene: Kumotta\_34 Start: 26417, Stop: 26599, Start Num: 12

Candidate Starts for Kumotta\_34:

(Start: 12 @26417 has 2 MA's),

Gene: Lozinak\_98 Start: 60011, Stop: 60211, Start Num: 9

Candidate Starts for Lozinak\_98:

(Start: 9 @60011 has 14 MA's), (17, 60068), (18, 60074), (25, 60152), (27, 60167),

Gene: Malisha\_63 Start: 40533, Stop: 40739, Start Num: 10

Candidate Starts for Malisha\_63:

(3, 40434), (4, 40455), (Start: 10 @40533 has 6 MA's), (18, 40593), (19, 40608), (24, 40668), (27, 40686), (29, 40728),

Gene: MargaretKali\_34 Start: 26052, Stop: 26234, Start Num: 12

Candidate Starts for MargaretKali\_34:

(Start: 12 @26052 has 2 MA's),

Gene: Miskis\_96 Start: 58711, Stop: 58911, Start Num: 9

Candidate Starts for Miskis\_96:

(Start: 9 @58711 has 14 MA's), (17, 58768), (18, 58774), (25, 58852), (27, 58867),

Gene: Mollymur\_93 Start: 63027, Stop: 62845, Start Num: 13

Candidate Starts for Mollymur\_93:

(Start: 13 @63027 has 1 MA's),

Gene: MortyNRick\_55 Start: 39746, Stop: 39955, Start Num: 10

Candidate Starts for MortyNRick\_55:

(Start: 10 @39746 has 6 MA's), (18, 39806), (19, 39821), (24, 39881), (27, 39899),

Gene: Norvs\_100 Start: 60040, Stop: 60240, Start Num: 9

Candidate Starts for Norvs\_100:

(Start: 9 @60040 has 14 MA's), (17, 60097), (18, 60103), (25, 60181), (27, 60196),

Gene: OneUp\_86 Start: 56418, Stop: 56615, Start Num: 9

Candidate Starts for OneUp\_86:

(2, 56301), (6, 56376), (7, 56394), (Start: 9 @56418 has 14 MA's), (27, 56574),

Gene: PhinkBoden\_97 Start: 59801, Stop: 60001, Start Num: 9

Candidate Starts for PhinkBoden\_97:

(Start: 9 @59801 has 14 MA's), (17, 59858), (18, 59864), (25, 59942), (27, 59957),

Gene: Smoothie\_99 Start: 60011, Stop: 60211, Start Num: 9

Candidate Starts for Smoothie\_99:

(Start: 9 @60011 has 14 MA's), (17, 60068), (18, 60074), (25, 60152), (27, 60167),

Gene: SpeedDemon\_940 Start: 64127, Stop: 63927, Start Num: 10

Candidate Starts for SpeedDemon\_940:

(Start: 10 @64127 has 6 MA's), (Start: 14 @64112 has 1 MA's), (18, 64067), (22, 64016),

Gene: Spooky\_52 Start: 37230, Stop: 37451, Start Num: 8

Candidate Starts for Spooky\_52:

(1, 37110), (5, 37188), (Start: 8 @37230 has 2 MA's), (17, 37299), (18, 37305), (19, 37320), (20, 37350), (26, 37395), (27, 37398), (28, 37416), (29, 37440),

Gene: Squiddly\_59 Start: 40046, Stop: 40252, Start Num: 10

Candidate Starts for Squiddly\_59:

(3, 39947), (4, 39968), (Start: 10 @40046 has 6 MA's), (18, 40106), (19, 40121), (24, 40181), (27, 40199), (29, 40241),

Gene: Toniann\_100 Start: 59980, Stop: 60180, Start Num: 9

Candidate Starts for Toniann\_100:

(Start: 9 @59980 has 14 MA's), (17, 60037), (18, 60043), (25, 60121), (27, 60136),

Gene: WilliamBoone\_100 Start: 58743, Stop: 58943, Start Num: 9

Candidate Starts for WilliamBoone\_100:

(Start: 9 @58743 has 14 MA's), (21, 58854), (23, 58878),